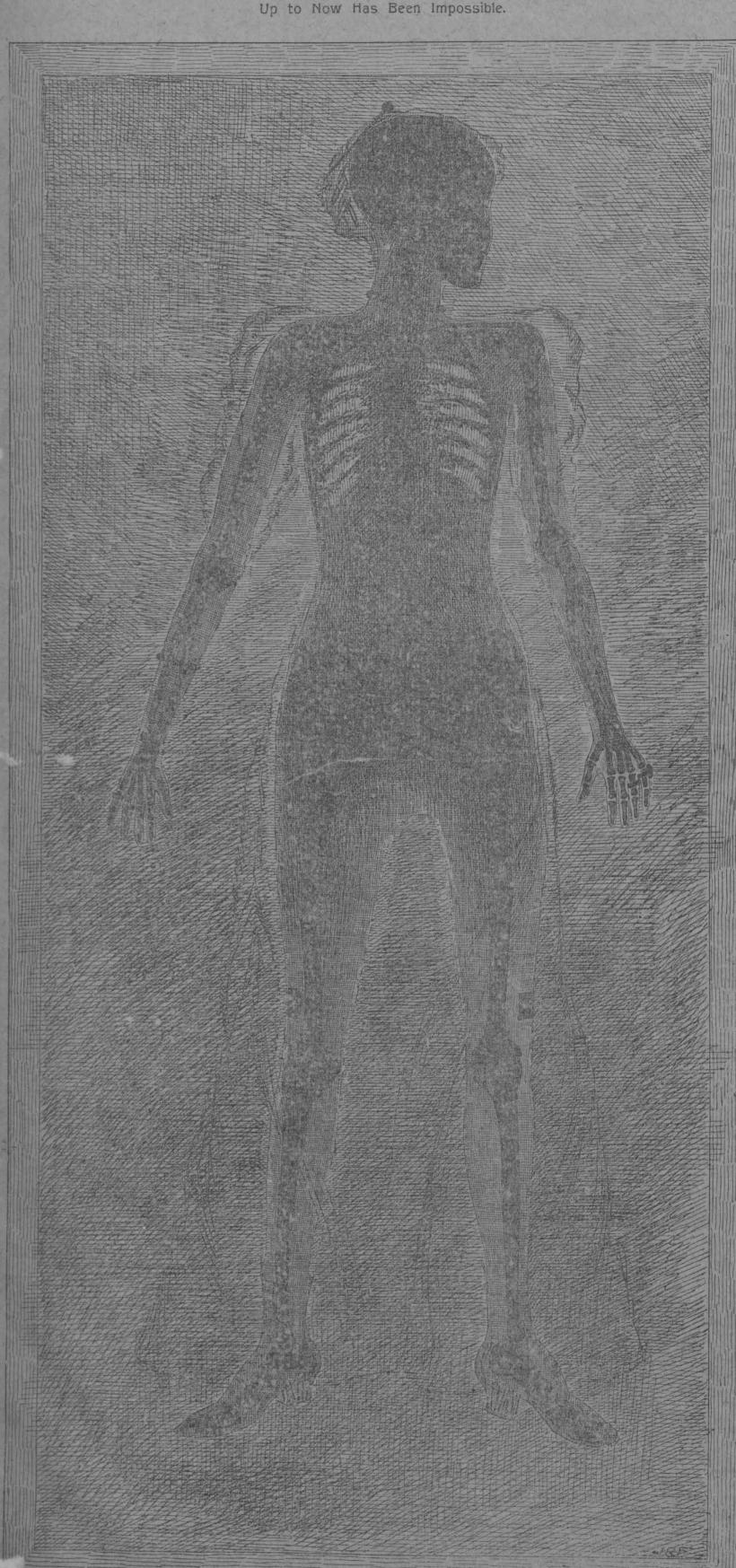
# REAL X-RAY GIANTESS. THE GREATEST

Professor Morton, Who Made the Gorset Experiments for the Sunday Journal, Has Simultaneously Made a Gathode Photograph of a Complete Human Being, a Seeming Miracle Which



rom a photograph film five feet and a high, loaned to the Journal by Professor Morton.

### A Shadowgraph of an Entire Human Body Taken on a Con-

An X-ray shadowgraph of the entire hu-

tinuous Film.

taking of the new shadowgraph by Dr. Morton is a distinct advance in X-ray work. Shadowgraphs of this character will be of the greatest value to physicians in diag-nosis and in the study of anatomy. The subject of this picture was a woman

thirty years of age, five feet four inches high, and weighing 120 pounds. She was well-muscled and in good health.

The picture was taken upon a continuous photographic film. This was six feet in length and three feet in width, and bad been especially prepared. The film was placed on the floor wrapped in three sheets of black paper, and the body placed directof black paper, and the body placed directly over it, so that the apparatus was beside the head and the Crookes tube directly over the pit of the stomach. When first making the attempt the doctor had tried using two and then three tubes, but the preliminary experiment developed two obstacles to this course. The first was that each tube occasioned independent pictures are to be more careful. One each tube occasioned independent pictures taught the rest to be more careful. One when told of her new honors, she asked whose outlines did not coincide; the second man was sent aft to get another revolver the Archbishop to pray for her, and the was the utter impossibility of keeping two and a couple of bottles of rum. Although trio went on their knees and prayed to or more tubes going at the same time, so I had no more love for the mate than any their Creator. or more tubes going at the same time, so as to produce either in serials or in parallel of the others. I could not bear the idea of any equal degree of work. When in parallel the current would quickly switch into

circumstances.

If the intensity of the X ray diminishes inversely as the square of the distance, it would take about twenty times as long to get a picture when the tube is four and a half feet from the sensitive plate as it would when one foot from it. On the other hand, it was necessary to place the tube four and a half feet and a half feet and a fit, the ship-knot jammed below his shoulders, he was jorked from his feet and of long shadows.

This shadowgraph shows not only the bones and skeleton, but also the fiesh and the texture of the clothes worn. The silk

situated above the other door. I heard the mate moving uneasily, and before very long be jerked my door open and leaped out on deck, coughing and choking, but defiant, and looking quickly from side to side.

I defly dropped my bowline over his head and sang out the one word, "Port!" The men, who had hold of the port line ran aft, the ship-knot jammed below his shoulders, he was jerked from his feet and dragged along the deck, cursing and firing a futile volley, as long as his animualtion lasted.

We tied him to the stump of the mizzen
when the distance, it mate moving uneasily, and before very long upon a time he had been smiften by his young Queen.

All this was ended, however, when she married Prince Albert, of Saxe-Coburg-Gotha, in 1840. Their happiness has often been told, but the following anecdote is not generally known:

One day the Queen and her liege lord had an ordinary, commonplace disagreement about something or other, and the Prince Consort, seeking to avoid further words, locked himself in his room. By and by there came a knock on the door, "Who is it?" asked the Prince.

This shadowgraph shows not only the bones and skeleton, but also the flesh and the texture of the clothes worn. The silk folds of the sleeves are mainly visible to the naked eye, as well as the folds of the skirt and its hem. The gold neck ace about the neck, the bracelet on the arm and the finger rings on the hands may be noted. Some of the rings contained diamonds, in which cases the rings appear to be stoneless, as of the rings contained diamonds, in which cases the rings appear to be stoneless, as the diamond is a carbon and not opaque enough to be affected by the rays. The garter buckles appear clearly, the one on the right being more visible than the one on the left, which shows directly over the knee bone. The high-laced patent leather inches the state of us and explained the necessity of pumpling.

There was a slience of some minutes, and then came a smull voice, half choked with the came shoes show the eyelets and the nails in ing.

The portions of the internal anatomy long boat." from the effects of the rars whatsoever, her. and Dr. Morton maintains that there need be no injurious effects from the close contact with X-rays on the human person.

"The harmlessness of the X-rays," he said, "depends entirely upon the operator, and not on the apparatus. Anybody can That the bag of biscuit. take a hot from and hold it close enough to burn the tissues, or hold it far enough away to be safe. I have personally never had a case where the tissues were burned."

tues of the entire adult skeleton, taken at ready more dead than alive. A fierce quar- intricate language when sixty-eight. one exposure, will soon become a part of rel at once arose. the ordinary curriculum of X-ray work in ald to diagnosis.

## WALKS ON THE WATER.

at last been solved. Professor William water placed within his reach. We then New Mexico this Spring. This fact is reponds of Georgia almost as easily as if he were tramping about on dry land. He keeps his secret to himself, and all that We then added to the stores of the long that a man was an unusually heavy fall of snew in the valley of the upper Rio enables him to glide over the surface of we cut loose.

Atlanta, Gn. Close inspection he avoids, however, and those who watch him are obliged to gain their ideas by long range methods and the aid of a field or opera glass. Observed with the assistance of the latter, the boat-like shoes which enable the inventor to travel about like a ship are three feet long and eight inches wide. On the sides and bottoms are finile projections, which close when the foot is moved forward, but open and present a large surface of resistance to the water when the other foot advances.

This is as far as the keenest observation goes. No one has been able to find out what the material is that is utilized for the shoes and the contention and mates were "Hellions," and would not believe that I was innocent of any part of the proceedings on board the Black Hawk. So when I was railed aft to report to the captain, I gave him a year that served as well for the official log.

Two years afterward, while in the Presidence of the mountain roads will make the mountain roads will make the mountain roads will seeks yet before the great masses of snow are melted, and the Rio Graude, which is higher now than t has masses of snow are melted, and the Rio Graude, which is higher now than t has been for more than fen years at this season. Will in all probability continue to rise for fully a month yet.

All of the streams in northern New Mexico are swollen beyond their usual bounds, and those which have their sources for weeks. Work has been delayed in the mining camps on account of the deep snow, and it has been only in the past to the captain, I gave him a year that the rorthern part of the territory.

Two years afterward, while in the Presidence of the Blying was to find myself, the sole survivor of the Graude, while is higher now than t has been for more than fen years at this season. It will be weeks yet before the great masses of snow are melted, and the Rio Graude, while in the Plying Sead which is higher now than the long than the says nothing about it, as their captain.

It will be weeks yet before

secret of the inventor, who . more than with the food alongside him. refleent, and states that if any of a learns the particulars of his plan, it will , mly be

is new should keep it to himself until he is legally protected. That is exactly what he

proposes doing.

Several months ago Professor Cook went to Americus on a visit, taking his beloved water-walking apparatus with him, but he was deaf to all entreaty from various persons to permit them to gain a sight of his remarkable invention. Among the curious was his brother, but he fared no better than the rest and is as ignorant as he was at the beginning.

A Journal reporter who has closely observed the movements of this new marvel noticed that whenever Professor Cook took a step there seemed to be some peculiar agitation of his body. For this reason it is binted that there is some sort of an ap-An X-ray shadowgraph of the entire human body has been taken at one exposure by Dr. William J. Morton, of this city. It is believed that this is the first time such a picture has been taken, either here or abroad.

Hitherto shadowgraphs of various parts of the body have been patched together so as to make a complete figure, but the result has not been entirely satisfactory. The taking of the new shadowgraph by Dr. paratus which is used in connection with

# The Mystery of the

Continued from Page Thirteen.

any equal degree of work. When in parallel the current would quickly switch into one or the other in spite of the artificial heating or cooling; when in series the tube with the lowest vacuum limited the degree of current.

The development of the film was most teditous and difficult, and when the resulting negative was finally produced it showed that a longer exposure would have made a better one, particularly about the region of the hips. This region in al subjects is extremely difficult to portray under the best circumstances.

In the deading weapons. I was too young.

There was a quantity of sulphur in the boatswain's locker that had been left over when the ship was fumigated for rats. We sat a lot of it after in the galley—trusting to the cracks in the bulkhead—and gave lim a smoke. I stationed myself on top of the house on one side, just above the door, with a running bowline, the hauling part leading abaft the house where the men were. Another man was similarly situated above the other door. I heard the mate moving uneasily, and before very long on a time he had been smitten by his young Queen.

heads aching, hands shaky and mouths parched with a thirst that nothing would queach. We got her over at last, provisloned her with two breakers of rum, one old-fashloned, and all her great correspond-

next morning, as there was every appear-auce of a heavy storm, we put the mast, has become expert on the machine. sall and compass in the long beat, and con-

never leave the bark. One of the Englishmen attempted to cut him down, but a Portuguese stabled the would-be liberator, and was in turn shot dead by a fellow countryman of the other. I interfered here, advising them that they were foolish to kill one another over such a man as Skelly. who had never shown the slightest bumanity for any of us. It was finally arranged that he should be left right where he was. The problem of walking on the water has His hands were released and food and

can make his way over ice that is in good was trying to drink from the bunghole of the water breaker, he reeled and dropped it overboard. Recriminations were soon follows. Professor Cook permits the public to see overboard. Recriminations were soon fol-the tests of his remarkable invention and lowed by the dash of sheath knives, and I gives daily exhibitions in Columbus and have a dim and hazy recollection of a slopes of the mountains. Atlanta, Ga. Close inspection be avoids, derce fight in the boat, in which I took no it will be weeks yet.

FRED B. WILLIAMS. Author of "On Many Sens."

### after a great deal of trouble with him personally. He realizes, he says, the fact that a man who has invented something which BIRTHDAY.

#### To-morrow She Will Celebrate the Seventyeighth Year of Her Great Life.

If she lives until daybreak to-morrow

quence she became the heir presumptive to the British throne.

She was a bright child, full of fun and Dead Man in the Davit. with a kind heart. She was educated as became her rank, but could never overome a strong German accent in her Eng-

lish, despite the best of teachers.

When a girl of eighteen, the Princess Victoria was spending a few weeks at in the carpenter's shop, we threw in after Kensington Palace, where she was born, bim. At this juncture some one thought of the was awakened by the arrival of the Arch-

of five sovereigns of Prussia, four each of "What! Us pump? Never! There's the Russin, Denmark, Spain and Portugal, The portions of the internal anatomy showing are the heart, liver and spleen. The subject during the time the picture was being taken did not experience any feeling her. her.

Harrison, Taylor, Tyler, Polk, Pierce,
It was a sig job for men in our condition
Buchanan, Lincoln, Johnson, Grant, Hayes,

That night it came on to blow, and the has become addicted to the typewriter.

Music is one of the Queen's great pleassidered what we should do with Skelly, ures, and many a famous composer has The success attained in this experiment who, from the long exposure, painful posi-leads physicians to hope that Roentgen pic-tion and lack of food and drink, was al-other of her hobbies, and she learned that

As a woman, Victoria has certainly been Some having lost their intense hatred of first in the hearts of her people. As a our hospitals. They will be an important the man proposed to take him along, sovereign she has sometimes been assailed. for political reasons, but friend and foe The other faction swore that he should alike have given her the credit that war

# FEET DEEP.

Cook, whose real name is William Glover, poured the dregs of a bottle of rum down ported by Special Agent Sherrard, of the is just now walking over the rivers and his throat and gave him a lick over the Land Court. There is no record of a

one can discover is that he wears upon each boat such articles as we thought might be foot what bears the appearance of a small useful, and, and the half articulate curses boat of very peculiar construction, which from the parched lips of the tyrant Skelly, much the heaviest for many years past. the water almost as rapidly as a skater. On the sixth day out, as the Welshman plied up to height of from forty to sixty In some of the deeper canyons the snow

It will be weeks yet before the great

the shoes and the counterfelt fins. None dency Jaff, at Calcutta, I heard that the weeks yet before the mountain roads will can learn how they are manufactured, or Binck Hawk had been boarded soon after be passable. Little damage has been done the method by which the two are conwe left her, and that the mate was found by high water up to this ilme, but fears
nected and operated. The c facts are the tied to the stump of the mizenmast, dead, are expressed that considerable loss will result in the valley of the Rio Grande, in the southern part of the territory, friom overflows and damage to railroad property.